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TITLE: MULTIPLE SYSTEM SERVO ACTUATOR CONTROLLER

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ADVANCED TECHNOLOGY INST OF COMMUTER HELICOPTER LTD

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## ABSTRACT:

PROBLEM TO BE SOLVED: To provide a multiple system servo actuator controller capable of preventing the deterioration of responsiveness or servo rigidity as much as possible and preventing power waste due to any antagonization between systems.

SOLUTION: This multiple system servo actuator controller is constituted of a control circuit 20 for controlling the first system of an electric servo actuator 1, a control circuit 30 for controlling the second system of the electric servo actuator 1, and a serial bus 40 for operating data communication between the control circuits 20 and 30. The control circuits 20 and 30 are respectively constituted of CPUs 21 and 31, memories 23 and 33, input and output circuits 24 and 34, driver circuits 25 and 35 for outputting motor driving currents to motor coils 9a and 9b of a motor 10, communication I/F circuits 26 and 36 for operating data communication with a host controller 41, and inter-system communication I/F circuits 27 and 37 for operating data communication with the other system. Deflection characteristics between a sensor signal S1 and a sensor signal S2 are measured, and dead zone width W1 and W2 of amplifiers 61 and 71 of the control circuits 20 and 30 are respectively controlled based on the measured deflection characteristics.

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